# **World Resources Company**

**RECYCLABLE MATERIAL PROFILE** 

Form: FM-M01
EXHIBIT A

Generator Name: ALASKAN	COPPER	WORKS					Con	npany	/ I.D. #: W2149A		
A. Generator Information											
1. Address: <u>3200 SIXTH AVENI</u>	3. M	3. Material EPA Waste Code: F006									
	A COLOR										
SEATTLE WA	3124	4. Generator's EPA I.D. Number: WAD980738546									
2. Contact: Gerald Thompson		90	3124	5. Generator's State I.D. Number:							
Z. Contact: Geraid I nompson 5. Generator's State I.D. Number: 5. Generator's State I.D. Number:											
B. Recyclable Material Characteristics											
1. Color(s): Brown	6. Texture (similar to)			7. Appearance		9 Free	Liquids (	EPA SI	W 846, Method 9095)		
Blue	l <u> </u>						Present	_, ,, ,,	Present		
	✓ Wet Clay			Homogenous		[V] 1401	riesent				
2. Odor (none,mild,strong)	Dry Clay			Dilouare d		10. Debr	is		11. Reactivity		
None	Sand			Bilayered		<b>√</b> Not	Present	. )	✓ Not Reactive		
Description of Odor:	Powder					Pre			Reactive		
	Other			Multilayered							
3. Moisture (wet,damp,dry)	8. Organic Vapors			Present		12. Radionuclides (ASTM D5928-96)					
Wet Percent Solids: 23.4				lentify compounds and om on a wet basis.		<b>✓</b> Not	Detected		Detected		
		ſ	amount in ppi	ii Oii a Wet	Dasis.	13. Cyan	ide Gas F	ICN			
<b>4. pH 5. lgnitability</b> (EPA SW 846, (40 CFR § 261.21)	<b>✓</b> Pass	i de la companya de l				<b>√</b> Not	Detected				
method 9040/9045) PASS	<b></b>	. 13					ected		nnm		
pH: <u>8.35</u> FAIL	Fail						ecieu		ppm		
C. Analytical Data		<u>`</u>	on a dry weig	ht basis in	······································						
Constituent *		Content	Qualifier			tituent *			ntent Qualifier		
1. Aluminum <sup>1</sup>	Al	5824.5 ppm		-	Magnes		Mg		0.5 ppm M1		
2. Antimony <sup>1</sup> 3. Arsenic <sup>1</sup>	Sb 3.5	24.9 ppm			Mangar Mercur		Mn		9.0 ppm M3		
3. Arsenic 4. Barium 1	As Ba	72.8 ppm 94.3 ppm			Mercur Nickel		Hg Ni		3.3 ppm 1.3 ppm		
5. Beryllium 1	Вe	< 10.0 ppm		_	Seleni		Se		0.0 ppm		
6 Bismuth 1	Bi	58.8 ppm			Silver		Ag		5.0 ppm		
7 Cadmium 1	Cd	< 20.0 ppm					Tl		0.0 ppm		
8. Calcium <sup>1</sup>	Ca	12369.0 ppm		26.			Sn		0.0 ppm L4, M3		
9. Chloride <sup>4</sup>	Cl	0.03 %			Zinc 1		Zn	132	8.9 ppm		
10. Chromium, Hexavaler	nt 2 Cr +6	3201.9 ppm									
11. Chromium, Total <sup>1</sup>	Cr	56432.3 ppm		— T* ^	nalytical B	rocoduro	Poforono		··		
12. Cobalt 1	Co	826.6 ppm			* Analytical Procedure References						
13. Copper 1	Cu	69454.2 ppm	M3		1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)						
14. Cyanide, Amenable <sup>3</sup>	CN.	not analyzed		-	2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)						
15. Cyanide, Total <sup>3</sup> 16. Fluoride <sup>4</sup>	CN T	< 42.7 ppm 0.49 %			3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)  4. HNO3 or H <sub>2</sub> O <sub>2</sub> / EPA Method SW846 9056 (Digestion / Analysis)						
17. Iron 1	Fe	258495.5 ppm		_ 4. 1	INU3 or H <sub>2</sub> U <sub>2</sub> /	EPA Method	1 SW846 905	6 (Diges	stion / Analysis)		
18. Lead <sup>1</sup>	Pb	114.7 ppm									
				_							
D. Certification											
I hereby certify that all information supmitted in this profile is complete and accurate to the best of my knowledge and belief.											
Signadi.											
Signed: Lan //	<del></del>	<del></del>	<del></del>	Date:	6/	0/05	<del></del>				
Title: Laboratory Manage											

AZF004\\F21 revised 4/30/2004

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### **World Resources Company**

QA/QC DATA

Form: FM-M01 **EXHIBIT A** 

Generator Name: ALASKAN COPPER WORKS

Company I.D. #: W2149A

QA/QC Criteria: All analyses met method criteria unless otherwise noted.

#### **Explanation of Data Qualifiers:**

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level.

The method control sample recovery was acceptable.

L4 The associated blank spike recovery was below method acceptance limits.

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

## **World Resources Company**

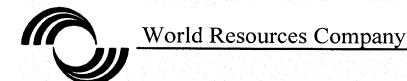
### SAMPLE COLLECTION & ANALYSIS COMPLETION DATES

Form: FM-M01
EXHIBIT A

**Generator Name: ALASKAN COPPER WORKS** 

Company I.D. #: W2149A

	Constituent		Sample Date	Completion Date	Sample Technician
1.	Aluminum	Al	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
2.	Antimony	Sb	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
3.	Arsenic	As	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
4.	Barium	Ва	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
5.	Beryllium	Ве	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
6.	Bismuth	Bi	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
7.	Cadmium	Cd	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
8.	Calcium	Ca	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
9.	Chloride	Cl	01/17/2005 16:50	01/20/2005 14:00	KEVIN MCALISTER
10.	Chromium, Hexavalent	Cr +6	01/17/2005 16:50	01/24/2005 14:00	KEVIN MCALISTER
11.	Chromium, Total	Cr	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
12.	Cobalt	Co	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
13.	Copper	Cu	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
14.	Cyanide, Amenable	CN.			
15.	Cyanide, Total	CN -	01/17/2005 16:50	01/20/2005 12:00	KEVIN MCALISTER
16.	Fluoride	F	01/17/2005 16:50	01/20/2005 14:00	KEVIN MCALISTER
17.	Iron	Fe	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
18.	Lead	Pb	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
19.	Magnesium	Mg	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
20.	Manganese	Mn	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
21.	Mercury	Нg	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
22.	Nickel	Ni	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
23.	Selenium	Se	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
24.	Silver	Ag	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
25.	Thallium	Tl	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
26.	Tin	Sn	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER
27.	Zinc	Zn	01/17/2005 16:50	05/06/2005 12:45	KEVIN MCALISTER



8113 W. Sherman St. Tolleson, AZ 85353-4025

Tel: 800.972.1955 Fax: 623.936.9164

June 8, 2005

Mr. Gerald Thompson Environmental Assistant ALASKAN COPPER WORKS P. O. Box 3546 SEATTLE, WA 98124-3546

#### Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company

Jason Hensley Laboratory Manager

**Enclosures**